

PUBLICATION NUMBER : 11211821  
PUBLICATION DATE : 06-08-99

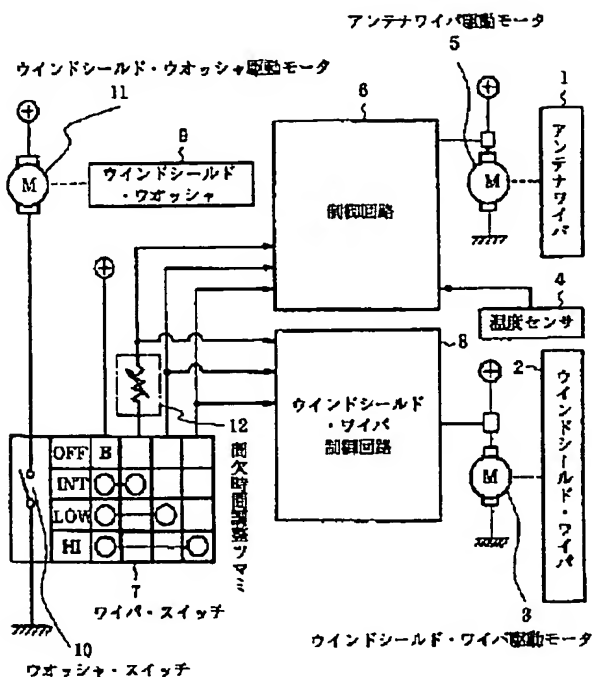
APPLICATION DATE : 26-01-98  
APPLICATION NUMBER : 10012878

APPLICANT : HINO MOTORS LTD;

INVENTOR : MACHIDA KOICHI;

INT.CL. : G01S 13/93 B60R 11/02 B60S 1/08  
B60S 1/46 B60S 1/60 G01S 7/03  
H01Q 1/02 H01Q 1/22

TITLE : SNOW AND ICE ACCRETION  
REMOVING DEVICE OF RADAR  
ANTENNA



ABSTRACT : PROBLEM TO BE SOLVED: To start the device at a necessary time against rain fall and snow accretion and stop it at an unnecessary time by setting a windshield wiper to be on, and automatically making a snow and ice accretion removing means to be in the on state when open air temperature is specific temperature or lower.

SOLUTION: An antenna wiper 1 is provided as a snow and ice accretion removing means, and when a windshield wiper driving motor 3 is in the on state and the open air temperature detected by a temperature sensor 4 is (t)°C or lower, the driving motor 5 of the antenna wiper 1 is made in the on state. A windshield wiper control circuit 8 controls the wiper 2 driving motor 3 by the operation input of a wiper switch 7. In the open air temperature (t)°C, when the temperature near to the ground is 0°C or lower, or even when it is 0°C or over but the cold exists up in the air, it may snow, and because attenuation of electric wave due to snow accretion is larger in the case of wet snow, it is desirable to be set at about 4°C.

COPYRIGHT: (C)1999,JPO

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**